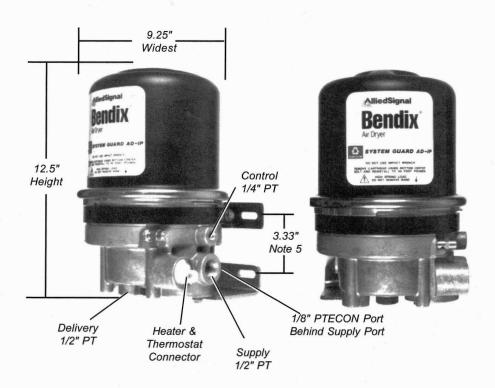
AIR DRYER

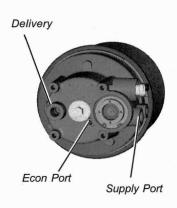
The function of the AD-IP Integral Purge Air Dryer is to collect and remove air system contaminates in solid, liquid and vapor form before they enter the brake system. It provides clean, dry air to the components of the brake system which increases the life of the system and reduces maintenance costs. Daily manual draining of the reservoirs is eliminated.

In addition to the standard AD-IP, the AD-IP DI (Drop In) is also offered. It is a specialized version designed especially for air systems that use either the Holset (Cummins) Type E or QE air compressor. These Holset compressors utilize a unique unloading system that requires

that air pressure remain in the discharge line during the entire unloaded cycle of the compressor. To accomplish this, Holset compressors rely on air "feedback" or back pressure from the supply reservoir. When an air dyer is installed the direct "feedback" from the supply reservoir is interrupted and an alternate source for "feedback" pressure must be provided. A standard AD-IP air dryer can be installed however a separate "feedback" line with a single check must be installed. The AD-IP Drop In model incorporates the feedback line and single check as an integral part of the dryer and eliminates the need for these components.

Weight 28.75 lbs. VMRS 13-010-033 Device Code 2414





AD-IP Bottom View

	_	Mounting	_	Heater &	
Service	Reman.	Bracket	Econ	Thermo.	
Pc. No.	Pc. No.	Kit	Port	Volts-Watt	Notes
65612	109477	5001247		12v - 90w	
65613	109478	5001247		24v - 90w	
65693	109503			12v - 90w	
800089	5000985	5001247	1/8" PT	12v - 90w	
800249	5002660			12v - 90w	
800576	5005556	5001247		12v - 90w	Ext. Purge
800577	5005567		1/8" PT	12v - 90w	Ext. Purge
800618	5006234	5001247		24v - 90w	Ext. Purge
800857	109478	5001247		24v - 90w	Includes Silencer

Note - 12 & 24 volt air dryers are identified by connector color - White = 12v, Gray = 24v

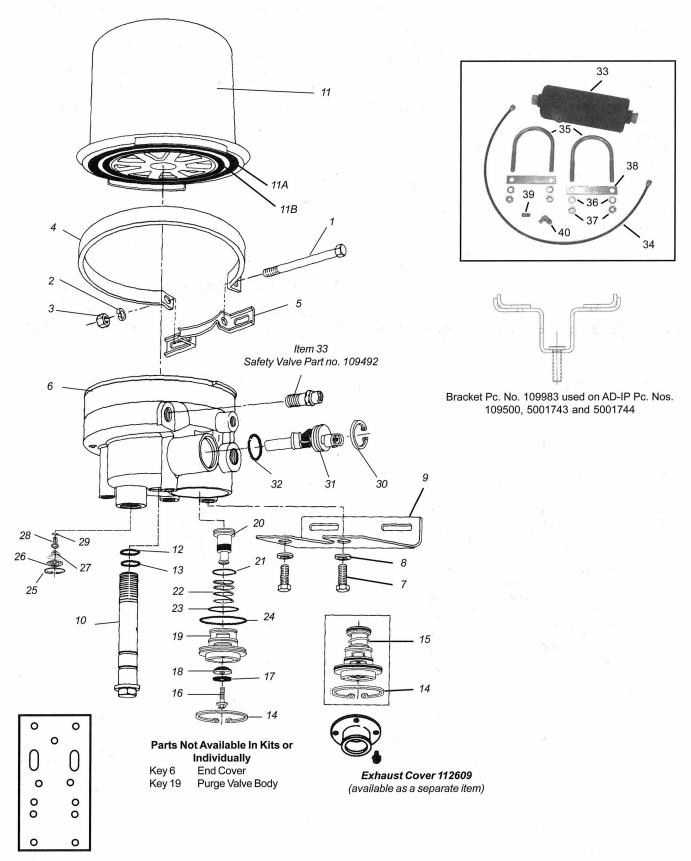
Note - Center to center of slots in both brackets 3.33 inches

AD-IP Piece Number Changeover

AD-IP	AD-IP .	AD-IP	AD-IP .	AD-IP	AD-IP .	AD-IP	AD-IP.
Pc. No.	Service Pc.No.						
65612	65612	109479	NA	800857	800857	5003294	65613
65613	65613	109480	NA	801124	801124	5003976	65612
65614	NA.	109500	65693	5000154	65612	5005268	800551
65615	NA	109503	65693	5000155	65612	5005270	65612
65693	65693	131030	NA	5000156	65612	5005387	65613
65709	NA	131038	65612	5000213	65612	5005697	65612
109465	65612	131066	65612	5000214	65612	5005702	65613
109466	65613	131080	65612	5000351	800089	5006591	65612
109467	NA	800020	NA	5000794	65612	5006634	65612
109468	NA	800021	65612	5000985	800089	5006848	65612
109469	65612	800089	800089	5001509	800089	5006879	65612
109470	65613	800249	800249	5001740	65612	5007252	65613
109471	NA	800551	65612	5001743	65693	5007270	65612
109472	NA	800576	800576	5002660	800249	5009413	65613
109477	65612	800577	800577	5002663	800249	5009817	65612
109478	65613	800618	800618	5002900	65612		

MAINTENANCE KITS

	ies i Kalendari (1957)				
	MOUNTING BRACKET KIT 5001247			EXTENDED PURGE KIT* 5005309	
Item	Description	Qty.	Item	Description	Qty.
1	5/16" Clamp Ring Bolt	1	33	Reservoir 3.5" x 10"	1
2	Washer	1	34	Makeup Line	1
3	5/16" Nut	1	35	Mounting Clamps	2
4	Clamp Ring	1	36	1/2" Lock Washers	4
5	Saddle Bracket	1	37	1/2" Nuts	4
7	3/8" Cap Screw	2	38	Plate	2
8	3/8" Washer	2	39	Straight Fitting	1
9	Lower Mounting Bracket	1	40	90° Fitting	1
				3/4" Pipe Plug	2
	CARTRIDGE BOLT KIT 109498		*For ext	ended purge air dryers only.	
Item	Description	Qty.		HEATER & THERMO, KIT	r
10	Cartridge Bolt	1		109495 (12 V.)	
12	O-Ring	1		109496 (24 V.)	
13	O-Ring	1	Item	Description	Qty.
			30	Retaining Ring	1
	DESICCANT CARTRIDGE KIT		31	Heater & Thermo Assly	i
65624 (Service New Cartridge)			32	O-Ring	i
1	09493 (Remanufactured Cartridge	ie)	02	O Tang	•
Item	Description	Qty.		SERVICE PURGE VALVE	(IT
11	Desiccant Cartridge	1		800404	
11A	O-Ring	1	Item	Description	Qty.
11B	O-Ring	1	14	Retaining Ring	1
12	O-Ring	1	15	Purge Valve Assembly	i
13	O-Ring	1	21	Quad-Ring	1
	3		23	O-Ring	1
	PURGE VALVE MAINT. KIT 5003547		24	O-Ring	1
Item	Description	Qty.		DELIVERY CHECK VLV. K	TT .
14	Retaining Ring	1 1		109494	M1 -
16	Shoulder Bolt	1	Item	Description	Qty.
17,18	Purge Valve Complete	1	25	Retaining Ring	Qιy. 1
20	Purge Valve Piston	1		3 3	1
21	Quad-Ring	1	26 27	Perforated Plate Check Valve Spring	1
22	Piston Return Spring	1	28	Check Valve Spring Check Valve	1
23	O-Ring	1	28 29		1
23	O-Ring O-Ring	1	29	O-Ring	1
19	Piston Guide	1			
18	Purge Valve Assembly Tool	1			
	Fulge valve Assembly 1001				



UNIVERSAL MOUNTING PLATE

Pc. No. 113209

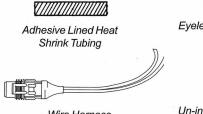
(Can be used to mount any air dryer to vehicle)

MAINTENANCE KITS

AD-IP

08-A-17

	WIRE HARNESS AND SPLICE KIT 109871	
Qty.	Description	
1	Wire Harness Assembly	
2	Un-insulated Butt Splice Connector	
1	1/4" Eyelet w/Heat Shrink Insulator	
1	3/8" Eyelet w/Heat Shrink Insulator	
2	2" Length Adhesive Lined Heat Shrink Tubing	





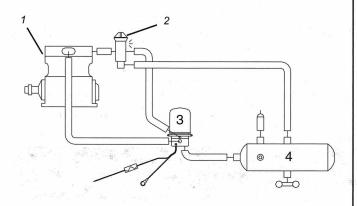
Wire Harness Un-insulated Butt Splice
Assembly Connector

SYSTEM APPLICATION & INSTALLATION INFORMATION

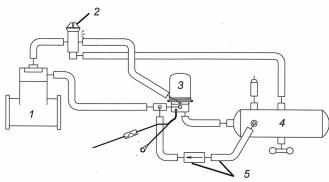
The AD-IP Air Dryer can be used in all the charging systems displayed below with the exception of the European style, Discharge Line Unloader system. Use the AD-9 Air Dryer shown on catalog page 08-A-31 for the discharge line unloader systems. Refer to Product bulletin Pro-08-12 for additional information on this subject.

Use the following component key for the charging system schematics below;

Typical AD-IP Air Dryer Installation Single & Two Cylinder Compressor (Except Holset E & QE)

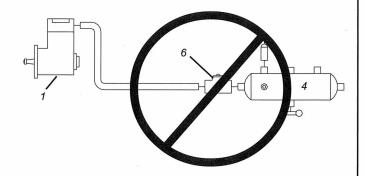


Typical standard AD-IP Air Dryer Installation Holset E & QE Single Cylinder Compressor



For Systems Using the Holset Type E & QE compressor, Use the AD-IP DI Drop In Air Dryer.

Typical Discharge Line Unloader Charging System USE AD-9 INSTEAD OF AD-IP (See Catalog Page 08-A-31)



Key	Description
1	Compressor
2	Governor
3	AD-IP Air Dryer
4	Supply Res.
5	Single Check & Feed Back Line (Holset only)
6	Discharge Line Unloader Valve

08-A-18

AD-IP

AD-IP DI DROP IN AIR DRYER

The purpose of the AD-IP DI is to permit ease of installation of the AD-IP air dryer in a charging system that utilizes a Holset Type "E" or "QE" compressor. With the AD-IP DI in use the makeup line and single check valve, required in the Holset installation are incorporated into the AD-IP DI. The AD-IP DI air dryer is meant specifically for the Holset system. Utilize the standard AD-IP when other charging systems are in use.

Weight VMRS

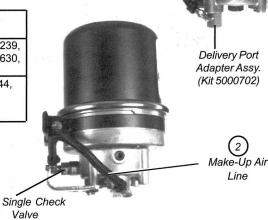
27.5 lbs. 13-010-033

Device Code

2415

AD-IP O.E. PART NUMBER TO SERVICE NEW & REMAN.

Service Pc. No.	Reman Pc. No.	O.E.M. Pc. No.
800067	5000709	5000708, 5000830, 5001239, 5001626, 5001736, 5006630, 5003975
800168	5001751	800248, 5001113, 5001744, 5002659, 5002662





ECON CHECK VALVE KIT 109499 consists of the following:

Item	Qty	Description
1	1	Single Check Valve
2	1	1/4" Tubing Assembly

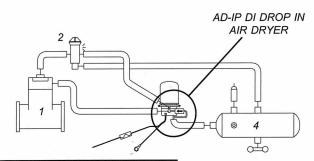
	Reman. Pc. No.		Delivery Port	Heater & Thermo. Volts-Watt	Comments
800067	5000709	°" PT	°" PT	12v - 90w	Notes 1, 2
800168	5001751	°" PT	°" PT	12v - 90w	Notes 2, 3

- Note 1 All replacement air dryers include 109871(wire harness and splice kit) and 5001247 (mounting bracket kit).
- Note 2 12 & 24 volt air dryers are identified by connector color White = 12v, Gray = 24v
- Note 3 Includes Econ Check Valve Kit and NO mounting kit

AD-IP DROP IN SYSTEM APPLICATION & INSTALLATION INFORMATION

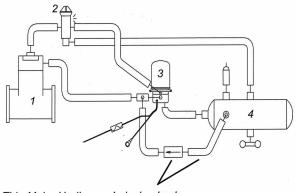
The AD-IP DI (Drop In) Air Dryer is meant for use in charging systems that use the Holset Type E or QE compressor.

Holset Charging System w/AD-IP DI (Drop In) Air Dryer



Key	Description
1	Compressor
2	Governor
3	AD-IP Drop In Air Dryer
4	Supply Res.

Holset Charging System w/Standard AD-IP Air Dryer



This Make Up line and single check valve

INCORPORATED IN AD-IP DI